

AMENDMENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A distributed architecture of an information handling system, comprising:

a buried nucleus inaccessible for inspection without heroic means while said buried nucleus is in operation, said buried nucleus including at least one matrix multiplier; and

a trusted authority, said trusted authority being in a vault and being configured for being operated according to at least one of: encryption measures and security measures, said trusted authority configured for generating a secure protocol, said secure protocol controlling operation of said buried nucleus,

wherein authorization information is securely conveyed into the buried nucleus via the secure protocol, thereby causing the buried nucleus to operate and return a result, the result utilizable for activating an authorized operation, the authorization information being processed by the buried nucleus when the buried nucleus is in operation, thereby making said authorization information and information relating to processing of said authorization information inaccessible for inspection without heroic means once said authorization information is conveyed to the buried nucleus, ~~wherein operation of the buried nucleus is automatically suspended upon detection of an intrusion~~, wherein all operations carried out by resource sets operating in an interior of the buried nucleus are inaccessible for inspection without heroic means, said operations including deciphering of a key provided to the buried nucleus via the secure protocol, ~~wherein operation of the buried nucleus is automatically suspended upon detection of an intrusion, rebuilding of a secure environment within the buried~~

nucleus occurs after said detected intrusion, and resetting of a clock of the architecture to zero occurs when replication by an attacker of said rebuilding occurs.

2. (Original) The distributed architecture of claim 1, wherein said buried nucleus includes at least one LFSR (linear feedback shift register).

3. (Original) The distributed architecture of claim 1, wherein said buried nucleus includes at least one reconfigurable core.

4. (Original) The distributed architecture of claim 1, wherein said buried nucleus includes at least one programmable logic block.

5. (Original) The distributed architecture of claim 1, wherein said buried nucleus includes at least one non-volatile RAM.

6. (Cancelled)

7. (Original) The distributed architecture of claim 1, wherein said trusted authority is a back-end secure server.

8. (Original) The distributed architecture of claim 1, wherein said trusted authority is a cell phone operator with a trusted command and control center.

9. (Original) The distributed architecture of claim 1, wherein said trusted authority is an encrypted medium.

10. (Currently Amended) A distributed architecture of an information handling system, comprising:

(a) a hardware/software system, comprising:

a microchip including an outer region having I/O pins and a buried nucleus inaccessible for inspection without heroic means when said buried nucleus is in operation, said buried nucleus including at least one matrix multiplier; and

external software connected to said I/O pins for controlling said I/O pins;

(b) a trusted authority, said trusted authority being in a vault and being configured for being operated according to at least one of: encryption measures and security measures, said trusted authority configured for generating a secure protocol, said secure protocol controlling operation of said hardware/software system,

(c) wherein said buried nucleus is configured for accepting and deciphering an encrypted key delivered through said secure protocol,

(d) wherein said encrypted key is securely conveyed into the buried nucleus via the secure protocol, thereby causing the buried nucleus to operate and return a result, the result utilizable for activating an authorized operation, the encrypted key being deciphered within the buried nucleus when the buried nucleus is in operation, thereby making the deciphering operation inaccessible for inspection without heroic means once said encrypted key is conveyed to the buried nucleus, ~~wherein operation of the buried nucleus is automatically suspended upon detection of an intrusion~~, wherein all operations carried out by resource sets operating in an interior of the buried nucleus are inaccessible for inspection without heroic means, said operations including deciphering of a key provided to the buried nucleus via the secure protocol, wherein operation of the buried nucleus is automatically suspended upon detection of an intrusion, rebuilding of a secure environment within the buried nucleus occurs after said

detected intrusion, and resetting of a clock of the architecture to zero occurs when replication by an attacker of said rebuilding occurs.

11. (Original) The distributed architecture of claim 10, wherein said buried nucleus includes at least one LFSR (linear feedback shift register).

12. (Original) The distributed architecture of claim 10, wherein said buried nucleus includes at least one reconfigurable core.

13. (Original) The distributed architecture of claim 10, wherein said buried nucleus includes at least one programmable logic block.

14. (Original) The distributed architecture of claim 10, wherein said buried nucleus includes at least one non-volatile RAM.

15. (Cancelled)

16. (Original) The distributed architecture of claim 10, wherein said encrypted key is encrypted with digital watermarking.

17. (Original) The distributed architecture of claim 10, wherein said encrypted key is encrypted with a fast elliptical algorithm.

18. (Original) The distributed architecture of claim 10, wherein said encrypted key is encrypted with Triple DES.

19. (Original) The distributed architecture of claim 10, wherein said encrypted key is encrypted with a Rijndael algorithm.

20. (Original) The distributed architecture of claim 10, wherein said trusted authority is a back-end secure server.
21. (Original) The distributed architecture of claim 10, wherein said trusted authority is a cell phone operator with a trusted command and control center.
22. (Original) The distributed architecture of claim 10, wherein said trusted authority is an encrypted medium.
23. (Withdrawn) A method for protecting encrypted information, comprising steps of:
 - (a) setting a buried nucleus in a quasi-stable mode of operation; and
 - (b) stopping clocking when said buried nucleus deviates from said quasi-stable mode.
24. (Withdrawn) The method of claim 23, wherein said step (a) comprising:
 - (a1) delivering a key through a secure protocol to said buried nucleus;
 - (a2) setting up a bit string by said key; and
 - (a3) giving a set of timer banks a pseudorandom temporal variability by said bit string.
25. (Withdrawn) The method of claim 23, further comprising:
 - (c) rebuilding a secure environment within said buried nucleus after an intrusion is detected; and
 - (d) resetting to zero when replication of re-buildup by an attacker is detected.
26. (Withdrawn) An apparatus for protecting encrypted information, comprising:
 - (a) means for setting a buried nucleus in a quasi-stable mode of operation; and
 - (b) means for stopping clocking when said buried nucleus deviates from said quasi-stable mode.

27. (Withdrawn) The apparatus of claim 26, wherein said means (a) comprising:

- (a1) means for delivering a key through a secure protocol to said buried nucleus;
- (a2) means for setting up a bit string by said key; and
- (a3) means for giving a set of timer banks a pseudorandom temporal variability by said bit string.

28. (Withdrawn) The apparatus of claim 26, further comprising:

- (c) means for rebuilding a secure environment within said buried nucleus after an intrusion is detected; and
- (d) means for resetting to zero when replication of re-buildup by an attacker is detected.

29. (Withdrawn) A computer-readable medium having computer-executable instructions for performing a method comprising steps of:

- (a) setting a buried nucleus in a quasi-stable mode of operation; and
- (b) stopping clocking when said buried nucleus deviates from said quasi-stable mode.

30. (Withdrawn) The computer-readable medium of claim 29, wherein said step (a) comprising:

- (a1) delivering a key through a secure protocol to said buried nucleus;
- (a2) setting up a bit string by said key; and
- (a3) giving a set of timer banks a pseudorandom temporal variability by said bit string.

31. (Withdrawn) The computer-readable medium of claim 29, wherein said method further comprising:

- (c) rebuilding a secure environment within said buried nucleus after an intrusion

Appl. No. 10/635,015
Amendment and Response to the Final Office Action Dated 06-09-09

is detected; and

(d) resetting to zero when replication of re-buildup by an attacker is detected.